

MEMBRANE ANTENNA ASSEMBLY FOR A WIRELESS DEVICE

ABSTRACT OF THE DISCLOSURE

[0073] A radio frequency keyboard assembly configured for use in a keyboard having a plurality of keys. The assembly includes a key matrix and a communication circuit. The key matrix includes an electrical matrix having switch points and a metallized membrane with printed geometric shapes that are part of an antenna. Each switch point is associated with a key from the plurality of keys and is capable of generating information associated with the key when the switch point connects with the electrical matrix. The antenna parts can be located on any surface of the membranes comprising the keyswitch matrix system. The communication circuit connects with the antenna and transmits the information through the antenna. To improve performance, RF signals can be transmitted when the switch points are not connected within the electrical matrix.